

CREDIT UNION REPEATS 5 PCT. DIVIDEND

1958 Safety Mark Tops Record Of 1957

Off-Job Mishap Figures Show Improvement

With determination to improve even on the fine 1958 safety mark established in the Y-12 Plant Area, all Union Carbide Nuclear Company employees in the plant apparently have made an excellent start for 1959. Since last November 14, there has not been a disabling injury in the Y-12 Plant Area and the number of man-hours of accident-free operations was nearing the 2,000,000 mark over the past week end.

Eight In Exposure Incident

Returning to that 1958 safety record in the Y-12 Plant, only 13 disabling injuries were recorded during the year — and eight of them were the employees involved in the radiation exposure incident last June. That leaves only five other lost time mishaps on the books of the Safety Department.

In comparison, there were 15 disabling injuries in the Y-12 Plant during 1957. Because of the exposure cases the 1958 record of days lost charged was 3,677 as compared to only 1,495 in the previous year of 1957.

Frequency Rate Low 1.1

The 1958 accident frequency rate in the Y-12 Plant was an exceptional 1.1. The frequency rate

ORNL EMPLOYEES GREATLY HELP Y-12 SAFETY RECORD

Oak Ridge National Laboratory employees in the Y-12 Plant Area contributed substantially to the fine 1958 safety record in this plant, Safety Department figures reveal. The last disabling accident suffered by an ORNL employee in the Y-12 Plant was on October 23, 1956. Since that time Laboratory personnel have worked more than 4,000,000 accident-free hours. ORNL personnel are counted among those of Y-12 in figuring the Y-12 safety records and the ORNL folks also receive individual safety awards when they are earned in the Y-12 Plant Area.

is the number of accidents per 1,000,000 man-hours worked. In 1957 this figure was only slightly higher at 1.3. However, the accident severity rate for 1958 (number of days lost per 1,000,000 man-hours worked) was 315 as against 134.

The current accident-free period—that reached the 1,500,000 man-hour mark on January 4—is the 24th Union Carbide Corporation Safety Period exceeding that number of hours worked without a lost time accident in the Y-12 Plant since May 4, 1947, when UCC took over operations here. With cooperation on the part of every UCNC employee in the plant and close observance of safety rules by everyone, it is hoped that a new high mark will be set this year.

Accident-Free Year Is Hope

A complete accident-free year would be a rousing compliment to every employee. It would bring not only high honors to the plant

Continued on Page 2

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated

66 Days Or
1,943,000 Man-Hours

(Unofficial Estimate)

Without A Disabling
Injury

Through January 18

Phone 7755

For Daily Report
On Accident-Free Hours

Texan Will Address ACS Meeting Tuesday

Dr. Norman Hackerman On Knoxville Program

Dr. Norman Hackerman, of the University of Texas, will speak at a meeting of the East Tennessee Section of the American Chemical Society next Tuesday night,



Tuesday night, January 27. The meeting will be at 8 p.m. at Dabney Hall, University of Tennessee, and preceded by a dinner at the Sophronia Hall cafeteria at the university.

A large group of ACS members from Y-12 and Oak Ridge is expected to attend the meeting.

Dr. Hackerman's topic will be "Mechanism of Corrosion Inhibition," a subject in which he has done considerable research during the past several years.

Dr. Hackerman is a native of Baltimore, Md., and did both his undergraduate and graduate work at Johns Hopkins University there. He received his Ph.D. Degree in physical chemistry in 1935. He has been an assistant professor of chemistry at Loyola University, Baltimore; a research chemist for the Colloid Corp. in the same city and an assistant professor of chemistry at Virginia Polytechnic Institute at Blacksburg. He left there to become a research chemist with the Kellogg Corp. in the Manhattan District, which did much work on the Oak Ridge plants and laboratories.

In 1945 he joined the chemistry staff of the University of Texas, where he now is professor of chemistry and chairman of the department and director of the corrosion laboratory. He is a member of numerous professional societies and a fellow of the New York Academy of Sciences.

NEW LABORATORY PLANNED

Union Carbide Chemicals Company of Canada is building a new customer service and product development laboratory at Montreal, East, Quebec. It is expected to be completed and fully equipped by late this year.

BEETS COLORADO'S BEST

Although Colorado is a prime livestock raising state, its principal product is sugar beets.

Electromet Becomes UC Metals Company

Corporation Change In Line With Policy

Union Carbide Corporation has announced a new name for its metals division. Electro Metallurgical Company now becomes the Union Carbide Metals Company. The change became effective January 1.

This change of name is another step in the program initiated by Union Carbide Corporation in 1957 designed to identify all of its divisions more closely with the parent corporation. In 1957, Union Carbide Corporation shortened its name from Union Carbide and Carbon Corporation and created the Union Carbide hexagon symbol.

"Change In Name Only"

H. K. Intemann, president of Union Carbide Metals Company, said that the change "is one in name only" and that "Union Carbide Metals Company will continue to produce and sell a full line of ferroalloys, metals, metal chemicals, and other metallurgical products under the long-used 'Electromet' trade-mark and other well-known brand names."

As Electro Metallurgical Company, the firm was the pioneer producer of ferroalloys for use in the production of iron and steel, having been founded in 1906. Today, Union Carbide Metals Company is the major producer of ferroalloys, metals, and other metallurgical products for the iron, steel, and non-ferrous metal industries.

Produces 100 Alloys, Metals

President Intemann said that with the development of changing needs of the industry and the addition of iron-free metals for use by the non-ferrous metal industry, the company today produces more than 100 different alloys and metals. He pointed out that new types of ferroalloys, such as vacuum-refined, self-reducing, and exothermic alloys, have been developed to meet technological changes in the industry; and new forms, such as briquetted, palletized, and bagged alloys, have simplified handling and use of these materials.

In recent years, pure forms of such metals as chromium, columbium, silicon, tantalum, and vanadium

Continued on Page 4

Lecture Series At ORNL Being Continued This Week

The lecture series being conducted by R. L. Becker, of the Oak Ridge National Laboratory Physics Division, is being continued this week with two talks scheduled. The lecture series temporarily supplants the weekly physics seminar meetings held by the division.

The fifth of the lecture series will be at 10 a.m. today, Wednesday, January 21; and the sixth at 3:15 p.m., Friday, January 23. The meetings are in the auditorium of Bldg. 4500, ORNL, and the lecture series is entitled "Fundamental Particles and Their Weak Interactions." Y-12ers interested in the topic are invited to attend.

Another Excellent Business Year Reported For 1958

Ketron, McGill, Mrs. Causey Are Reelected; Groups Tops \$2,000,000 In Assets, Shares

Another good business year enjoyed by the Y-12 Employees Credit Union during 1958 was reflected in the declaration of a five per cent dividend on outstanding shares—the same as last year—at the annual membership meeting of the organization last Thursday night at the Ridge Recreation Hall. Despite the inclement weather, a large audience of members turned out to hear the optimistic reports from President C. V. Ketron on behalf of the board of directors and also from the credit and supervisory committee chairmen.

For several years prior to last year, the Credit Union dividend had been set at 4.2 per cent. Both last year and this year, the board of directors recommended a bonus dividend of .8, making the total of five per cent.

To Be Applied To Shares

The dividend will be applied to the share accounts of members, according to Mrs. Lorena Causey, treasurer-manager of the Credit Union. A periodic report on all share and loan accounts will be made to every member later in February, Mrs. Causey pointed out.

In addition to the dividend declaration, a slate of candidates for the board of directors, the credit and supervisory committees proposed by a nominating committee headed by J. Clyde Bowles, Mechanical Inspection, was elected by acclamation.

Board Elects Officers

The new board, in turn, elected officers for the year. President Ketron, an Oak Ridge National Laboratory employee in the Y-12 Plant Area, was reelected, as was Vice President W. R. McGill, of the Y-12 Fire Department; and Mrs. Causey, J. P. Blakely, ORNL, who served as secretary for the past year, was elected assistant treasurer. John Perry, Development Operations, was named secretary; and H. R. Gwinn, Special Testing, was reelected chairman of the education committee. T. J. Stephens, Plant Records, also is a member of the board.

W. R. McGill

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W. E. Davis, Security, a hold-over member on the credit committee, was named chairman for this year. Other members of that committee are S. C. Simmons, General Machine Shop, another holdover; Paul Griffin, ORNL; C. E. Harris, Research Services; W. C. Moisson, Project Engineering; E. G. Richardson, Maintenance Planning; and A. E. Sands, Chemical.

C. M. West, Health Physics, is the lone holdover member of the supervisory committee. Elected to serve with him were E. E. Goode, Cashier and Travel Office; and A. L. Conte, Project Engineering. This committee deferred naming a chairman until Conte, out of town on business last week, returns.

Marks Reached Last Year

In his report for the board of directors, President Ketron pointed out that the Credit Union assets reached the \$2,000,000 mark for the first time in August, 1958



C. V. Ketron



Lorena Causey

and the share balance also passed that mark for the first time in December. As of December 31, the assets of the Credit Union totaled \$2,221,992 and the outstanding shares were \$2,013,948.

The total value of loans outstanding at the end of 1958 was \$1,286,269, up some \$160,000 from the previous year. All loans made during the year totaled \$2,484,939, an increase of about \$183,000 over the 1957 figures. The total number of loans made in 1958 was 5,483, an increase of 23 over the previous year. The membership has remained about constant, being 4,383 at the end of 1957 and 4,392 at the end of last year.

\$12,447,168 Has Been Loaned

President Ketron reported that since the Y-12 Employees Credit Union was organized in June, 1950, a total of \$12,447,168 has been loaned to Y-12ers, representing 35,057 individual loans.

"These figures give some idea of the impact the Credit Union has on the economic life of its members," said President Ketron. "And they become even more significant when it is realized that more than \$2,000,000 in shares has been saved by our members."

On recommendation of federal examiners, the Credit Union board charged off \$5,257 as bad loans last year, the president continued. This brings the total charged off since organization to \$16,167, and of this amount, \$867 has been recovered. The losses are 0.13 per cent of the total loans made since organization, one of the lowest in the nation among Credit Unions comparable to the Y-12 organization.

The Credit Union has investments in government bonds, savings and loan associations and other credit unions now totaling \$70,774, including \$10,000 each in some 60 savings and loan associations. These investments yielded a profit of \$27,617 during the year, President Ketron pointed out.

The president praised the work of the Credit Union office staff, reporting that expenses were kept to a low 33.6 per cent of the gross income of the organization. This is five to seven percentage points below the national average.

In her report as treasurer, Mrs. Causey pointed out that the net income of the Credit Union during 1958 was \$103,074.54 and after the legal reserve and contingency deductions of \$35,614.86 were made, the net earnings for the year were

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The Bulletin

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Y-12 Employees Of
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NUCLEAR COMPANY
Division Of
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1958 Safety Mark Tops Record Of 1957

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and valuable individual safety awards to all employees—but also would bring the much more valuable blessing of continued good health, lack of worry about pain or finances and the other inclement results from injuries.

In the field of off-the-job accidents involving Y-12ers last year, the 1958 figures of 69 are almost identical with the 68 for 1957. However, in other statistics Y-12ers fared better in 1958 than in the previous year. For instance, in days lost or charged, in 1958 the figure was 13,524 as against some 19,257 for the previous year. In 1958 there were two fatalities, both in traffic accidents, as against three similar mishaps in 1957.

Home Accidents Decrease

There were only seven home accidents recorded in 1958 as against 23 in 1957, indicating more attention to safety away from the job. Disabling accidents in recreational activities in 1958 cost loss of time to five Y-12ers, while 10 were off for the same reason in 1957. Various types of automobile accidents sidelined 40 Y-12ers in 1958 and only 29 the previous year.

Y-12ers With 15, 10 Years Company Service

Congratulations to the following Y-12 employees who will complete 15 and 10 years of Company Service within the next few days:

15 YEARS

Roy E. McGill, Mechanical Maintenance, January 22.
Hartford E. Buckminster, Special Projects, January 24.
Frank Fuis, Jr., Mechanical Engineering, January 24.
Ernest A. Cobble, Buildings and Grounds, January 24.
Roscoe Roberts, Buildings and Grounds, January 24.
Benjamin B. Addison, General Machine Shop, January 24.
Thomas J. Stephens, Plant Records, January 24.
Claude R. Wall, Fire Department, January 26.
Clarey C. Chamberlain, General Machine Shop, January 26.
Lloyd A. Tolliver, Chemical, January 28.

10 YEARS

William C. Caldwell, Production Inspection, January 26.

AMUNDSEN WAS FIRST

Capt. Roald Amundsen commanded the first ship to pass from the Atlantic to the Pacific Ocean when he navigated the Northwest Passage in 1903-1906.



Some Y-12 gal lost a mighty pretty scarf several days ago in the parking lot just outside Bldg. 9704-2—and Madge Keck, of the Superintendents Department, found it. Madge followed rules and regulations and reported her find to the Guard Department—but no lost scarfs had been listed there. Now Madge would like to find the owner—and if the loser calls plant phone 7187 and describes the scarf, it will be promptly returned.

Having deviated into the "Lost and Found" department, the Cylum now will resume its normal functions of snooping around the place to find out who did what when, where and howcome—maybe.

SHIFT SUPERINTENDENTS AND UTILITIES

The entire division is joined by the throng of friends of Plant Shift Superintendent **Dan Rader** in extending to him their sincere sympathy on the death of his mother, Mrs. Sophia Neal Rader, in Summersville, W. Va., Wednesday, January 14. Funeral services were held in Summersville last Friday. A sister, Miss Anna Mae Rader, is the only other close survivor.

TECHNICAL

A Shift of Production Assay extends rapid recovery wishes to **Agnes Lee**, hospitalized in Knoxville. Condolences are extended **Hoyt Tinsley**, whose grandmother died recently.

Get well wishes also are sent from Laboratory Operations to **Anne Wenzler**, in Oak Ridge Hospital. Likewise to **Lynn Hankins** and **Marie Dinsmore**, both ill at home last week.

The Bioanalysis Group of Special Testing sends sympathy to **Louise Burgess**, whose uncle died a few days ago.

Mechanical Engineering believes that old baby-bearing-bird, Mr. Stork, worked overtime Saturday, January 10, when he brought a seven-pound, 15-ounce girl, Lee Ann, to **Charles Chiahshz** and his missus—congratulations from all of us to all of you. The department is happy to report that **Mrs. H. E. Coppock** is home after being hospitalized for a week undergoing orthopedic therapy. The **D. V. Williams**, whose home is in Maryville, week ended at the home of his parents in Loudon. **Dave Dewalt** was away for a few days last week to undergo more plastic surgery necessitated by injuries sustained in an automobile accident last winter. **Tommy Swindell's** youngest son, Jimmy, has finished his Air Force basic training at Lakeland, Fla., and has been assigned to radio and radar training at Keesler Air Force Base near Biloxi, Miss.

We need more of these kind of guys in Y-12. It seems that a newlywed couple was honeymooning at the seashore (Daytona Beach, no doubt). As they walked arm in arm along the beach, the young bridegroom looked dreamily out to sea and cried out:

"Roll on, thou deep and dark blue ocean—roll!"

His bride gazed at the water for a moment, then in hushed tones she gasped:

"Oh, John, you wonderful man, it's doing it."

INDUSTRIAL RELATIONS

The Boys in Blue and Gray send get well wishes to Guards **J. C. Mitchell** and **J. V. Ledbetter** in Oak Ridge Hospital. Same goes for Guard **J. B. Quinn**, hospitalized somewhere unknown to our reporter, **Liz Campbell**. Meanwhile, back at Bldg. 9710-2, all the firemen seem to be hale and hearty. Guard **J. T. Byrum** is welcomed back from an extended bout with the miseries. The **Floyd Shook** family—he's

in Safety—was "all shook up" last week with the miseries. **Floyd** had tooth and tummy aches and the sniffles and his wife, **Lorene**, was hospitalized with a digestive disturbance.

MECHANICAL OPERATIONS

Scribe **Mavis Koons** wig-wags from the H-2 Shop, Spruce Shop and M Wing that get well wishes are rushed to ailing **A. J. Blay**, **B. W. Hensley**, **D. A. Lanham** and **C. F. Murrin**. Ken **W. Sommerfeld** and his wife were recent vacationers in Dallas, Tex. **Jane Harvey** and her husband **Eddie** picked Nashville and Fayetteville for their vacation spots. Authoress **Mavis Koons** and her hubby, **Elmore**, of Mechanical Maintenance, were recent visitors to Bill **Koons, Jr.**, and family in Atlanta—where they saw the play "South Pacific."

Z Area extends a cordial welcome to newcomers **L. E. O'Dell**, **K. E. Kahley**, **M. B. Dyer**, **S. E. Pelizzari**, **B. W. Garrett**, **A. F. Gillen**, **H. H. Newman**, **H. L. Hunter**, **H. T. Hill**, **A. L. Tilley**, **D. N. Sideris** and **C. M. Cottrell**. **C. C. Mason** is welcomed back after a recent illness and get well wishes are sent to **Otis Chambers**, **G. E. Hileman** and **D. W. Garland**.

They need **Perry Mason** on this one—to write "The Case of the Loaded Robber."

A gent was walking home late one night when he was accosted by a tough character, who pleaded:

"Could you help a poor, hungry, homeless man, boss, who ain't got nothin' but a loaded pistol on him?"

MAINTENANCE

Desma Blair, the faithful writer from Mechanical Maintenance, almost got the Cylum Conductor in a tizzy last week when she reported that "**J. S. McGhee** and **Morris Bailis** were courting in Clinton." A hurried phone call cleared up the matter—they were merely on jury duty. The department sends sincere condolences to **M. Campbell**, whose daughter died January 12. Get well wishes are dealt out to **W. F. Cooper**, **C. Holt** and **R. E. McGill**. The folks are glad to have **S. F. Sparks** back after being off sick for a spell. **E. Bailey** is taking an early vacation—so early that his destination was not revealed.

Research Services extends sympathy to **R. E. Blank**, whose mother died recently. Also to **Hugh Sadler**, who also lost his mother a few days ago. Rapid recovery wishes go to the sick roster, including **N. A. Stone**, **J. W. Rule**, **J. W. Lawrence**, **E. H. Gouge**, **L. C. Hargis** and **J. B. Strickland**. Likewise to the wives of **H. W. Ditchen** and **C. A. Baer**, both hospitalized.

CHEMICAL

Father-of-the-week in Product Processing is **Jack Clouse**. He is the proud parent of a baby girl born at Oak Ridge Hospital last week—no further statistics. It is his third daughter—no boys. Condolences are offered **Eva Lowe**, whose brother died recently in Baltimore, Md. The welcome mat was rolled out last week for **Larry Lasher**, recently acquired by transfer.

Add this to the "She thought he meant well department."

A young man was seated opposite a nice old lady in a Pullman car. For some time he sat vigorously chewing gum.

Finally, the old lady leaned forward and said:

"It's so nice of you to try to make conversation, but I must tell you I am stone deaf."

An accident can be a "grave" mistake.



Miss Marylyn Barnhill

Y-12er's Kin Cited For Accomplishment At State College

Miss Marylyn Barnhill, step-daughter of **J. M. McCloud**, foreman in the Janitorial Department, has made an outstanding record in her more than three years as a student at East Tennessee State College at Johnson City. For her accomplishments in scholarship and leadership, she has been listed in the national publication "Who's Who in America Colleges and Universities" with 33 other students at the East Tennessee institution.

Miss Barnhill is scheduled to graduate from the East Tennessee State College in March of this year. She is a graduate of Oak Ridge High School.

The McClouds live at 104 Sanford Lane, Oak Ridge.

Rides Wanted, Offered

Ride wanted from **Hickory Lane, Oak Ridge, to North Portal, straight day**. **Pat Blanton**, plant phone 7030, home phone Oak Ridge 5-7093.

Two car pool members wanted from **Clinton to West Portal, straight day**. **H. S. Corey**, plant phone 7992, home phone Clinton 1423.

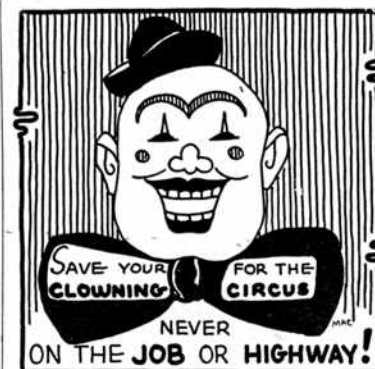
Rider wanted from **Burlington section, Knoxville, via Whittle Springs and Knoxville - Clinton highway to any portal, straight day**. **W. H. Halbert**, plant phone 7-8374, home phone Knoxville 4-0088.

Ride wanted from **Oakwood section, North Knoxville, to Central Portal, straight day**. **Gerald North**, plant phone 7378, home phone Knoxville 5-4203.

Ride wanted from corner of **Mary St. and Woodbine Ave., East Knoxville, to West Portal, straight day**. **J. E. Bennett**, plant phone 7-8382.

Ride wanted or will consider car pool from **Burlington area, East Knoxville, to Central Portal, straight day**. **Edna Apperson**, plant phone 7-8241, home phone Knoxville 5-3852.

There's a line on the ocean which by crossing one can lose a day. There's also a line on a highway where you can do even better.



Get well wishes go to the following Y-12 employees who were patients last week in the Oak Ridge Hospital:

A. H. Inman, Design and Composition; **G. W. Holcomb**, Don Pitt and **D. W. Garland**, General Machine Shop; **D. D. Forrester**, Stores; **J. H. Morgan**, **C. S. May** and **L. F. Gibson**, Buildings and Grounds; **R. G. Fowler**, Alpha Four; **Anne E. Wenzler**, Laboratory Operations; **C. C. Parson**, Mechanical Maintenance; **N. A. Stone** and **J. W. Lawrence**, Research Services; **J. C. Mitchell**, Guard; **T. S. Arnold**, Colex Auxiliary Operations.

Chemicals Production Increase Is Predicted

Dial Sees Upswing In 1959 After Slump

In spite of the recession, production of chemicals in 1958 will probably surpass that of last year—and further increases are expected in 1959, according to **Morse G. Dial**, chairman of the board of Union Carbide Corporation.

Mr. Dial spoke on a special program, "The Business Outlook for 1959," on the American Broadcasting Company radio network recently.

"Our best guess at this time is that 1958 total volume of the chemical industry will be a little above 1957, and that 1959 will show a further gain—perhaps as much as six or seven per cent," Mr. Dial said.

The petrochemicals part of the industry will do even better, he said. He forecast a gain of more than 10 per cent in petrochemical volume next year. Petrochemicals account for about one-fourth of the total tonnage of the chemical industry, and more than half of its dollar value. Capital expenditures of the chemical industry may dip slightly in 1959, according to Mr. Dial. He said, however, that further increases in capital expenditures are likely after 1959. Union Carbide is the nation's second largest chemical company with 1957 sales of 1.4 billion dollars.

Credit Union Repeats Five Pet. Dividend

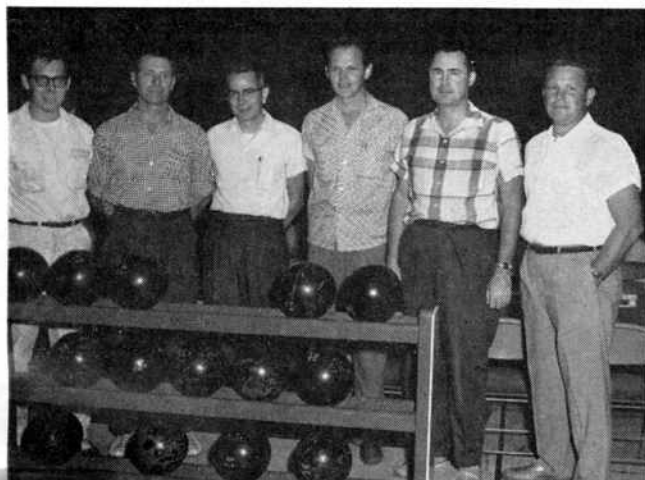
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\$67,459.68. Total expenses were reported as \$52,156.52.

In reporting for the credit committee, **M. M. Dickens**, Production Control, the retiring chairman, said his committee had held 104 meetings during 1958 and approved 5,405 loan applications. Among the loans made were 216 for purchase of automobiles, totaling \$317,577. Real estate loans were down for the year, only 29 totaling \$79,041 being made. Of all the loan applications received, only 73 were rejected by the committee, Dickens said.

Reports also were made by **John Lay**, SS Control, for the Supervisory committee; and **Gwinn**, for the education committee.

ENTREES ARE ANNOUNCED FOR Y-12 SPECIAL LUNCHES

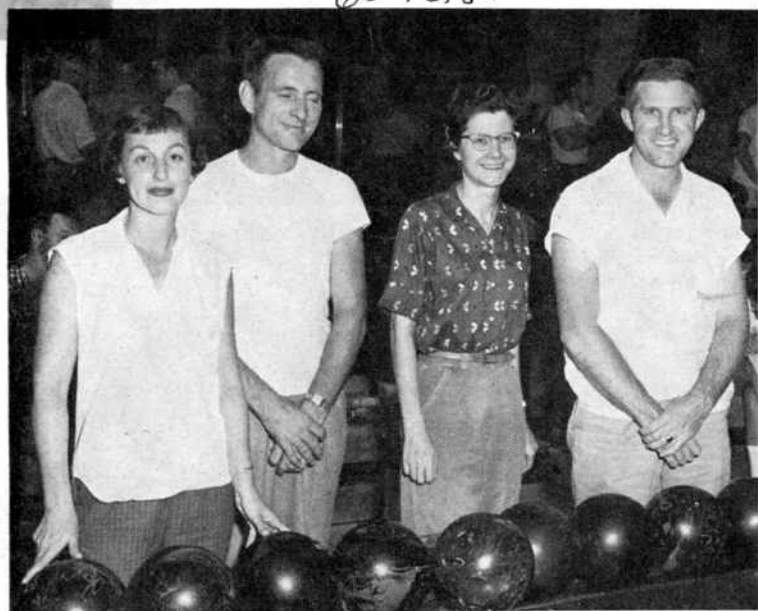
Spanish rice and meatballs will be the main dish on the 50-cent Special Lunch to be served tomorrow, Thursday, January 22, at the Y-12 Cafeteria. On next Tuesday, January 27, meat loaf with creole sauce will be served. Each Special Lunch also includes one vegetable, choice of salad or dessert and rolls and butter.



THESE THREE BOWLING TEAMS IN THE CLASSIC LEAGUE may not be standing high up in the close league contest but they give a good account of themselves on every trip to the alleys. At left are the

Playboys, from left being Dave Smith, Sam Campbell, Bob Brothers, Ted Higgins, Neil Dow and Ray Ellis. In the center picture are the Tigers. From

R. Smith and D. Grigg. The team on the right is the All Stars, bowlers being T. Pappas, Otto Briscoe, L. Brown, C. Stevens, Jack Thompson and Bill Hackett.



THESE SCRAPPERS OF THE MIXED LEAGUE of Y-12 men and women bowlers have been scrapping throughout the season for every possible pin they can pulverize. From left are Mary Cusman, Mack Wright, Nancy Garrison and Herb Oliver.

ORGDP A Shifters Lead Volleyball Loop; Punks Tip C Shift Cats In Real Thriller

The idle A Shift team from Oak Ridge Gaseous Diffusion Plant in the All Carbide Volleyball League, held their lead in the loop last week. However, court action produced some real competition with the Y-12 Punks taking three hard-fought tilts from their fellow plant team, C Shift Cats; the Y-12 Hunters clipping the wings of the Y-12 Eagles in three straight and the Eagles then taking three from the C Shift Cats. The MIT crew whacked another ORGDP team, Process Engineers, for three in a row.

The Cats forced the Punks into two deuce games before bowing in the closest match of the week. Scores were 17-15, 17-15 and 15-13. The Hunters humbled the Eagles by 15-3, 15-6 and 15-10, and the Eagles gained their win over the Cats by a forfeit. MIT posted a 15-12, 18-16 and 15-10 victory.

Team	W	L
A Shift	9	0
Hunters	11	4
Eagles	10	5
MIT	7	5
Punks	4	5
Beavers	3	6
Process Engineering	3	9
C Shift	1	14

Sizzling Sunflowers Derail Engineers

The fast-riding Engineers ran into a road block and were derailed for four points in the C League at the last alley activities of that loop to cut the loser's lead in the pin smashing loop to three points. The T Squares and Alley Cats also turned in whitewash wins over the Wacos and Daffodils, respectively, to advance up the ladder. The Knot Heads chilled the Chillers for three points and B Shift handed a similar defeat to the Goof Balls. Murderer's Row and the Dry Hides came out even at two points each.

Galford, Sunflowers, had best individual scratch scores of the

500,000 Waterfowl Counted In State

There were more than 456,000 ducks and 48,900 geese in Tennessee on December 15, according to the state-wide waterfowl survey conducted on that date. Kentucky Lake had the most ducks, with an estimated 230,000, and Reelfoot Lake was next with 179,810. Most of these ducks were mallards. The results of the survey over the rest of the state showed 14,520 ducks on Chickamauga, 14,050 on Watts Bar Lake, and 5,530 on Dale Hollow.

There were 5,000 Canada geese on Chickamauga, and 1,600 at Watts Bar.

Unless weather conditions change markedly, these waterfowl numbers should remain about the same throughout the remainder of the season.

night with a 219 game and 570 series. The Dry Hides' J. W. Nicely bagged a 243 handicap game and 649 series. In team scoring the Alley Cats had a 892 scratch game and a 3061 handicap series for tops. The best handicap game was 1087 by the Dry Hides and the best scratch series went to the sizzling Sunflowers with 2505.

League standing follows:

Team	W	L
Engineers	21	7
Sunflowers	18	10
T Squares	16	12
Goof Balls	15	13
Alley Cats	15	13
Dry Hides	14	14
Daffodils	13	15
Knot Heads	13	15
B Shift	13	15
Chillers	12	16
Murderer's Row	12	16
Wacos	6	22

Reactors, Demons Tied In Hoop Loop

Two Y-12 Teams Stage Thriller On Court

The Y-12 Reactors grabbed a tie for first place in the All-Carbide Basketball League last week by trimming the Comets, also a Y-12 quintet, in a 48 to 46 thriller. It was the first loss of the season for the Comets. The Hawks, of Y-12, fell by a score of 55 to 30 to the All Stars, of Oak Ridge Gaseous Diffusion Plant; and the Lab Demons trimmed their fellow-ORGDP team, the D Ramblers, by 47 to 39, to gain a dead-lock for the loop lead.

Although the two top Comet scorers, Hopkins with 20 and Evans with 16, out-tallied the leading Reactors' point producers, a better balanced offense gave the Reactors the win. Taylor had 14, Cheek 10 and Chandler nine for the winners.

The Comets bagged a 24 to 20 margin at half time, but a 16 to 8 third period margin by the Reactors brought the win as the Comets rallied to get a 14 to 12 edge in the final chapter.

The All Stars led all the way against the battling Hawks, although the Y-12 team held their opponents even at 10 points each in the third quarter. Leading Hawk scorers were Wright 12, Prigdon nine and Shumpert four. The game's leading scorer was Williams, of the Stars, with 15.

The Lab Demons took an early 29-11 halftime lead over the Ramblers and coasted to their win to get their tie with the Reactors.

League standing follows:

Team	W	L
Reactors	4	1
Lab Demons	4	1
Comets	3	1
All Stars	3	3
D Ramblers	1	3
Pilot Plant	1	3
Hawks	0	4

Hiwassee Waterfowl Are Being Banded

The banding of waterfowl on Hiwassee Island Refuge, near Dayton, Tenn., is now underway, according to Bill Yambert, principal waterfowl biologist for the State Game and Fish Commission. This banding of waterfowl aids in providing much needed facts about the migration habits of the waterfowl using Tennessee refuges and public shooting areas.

In the banding program on this area last season some 280 ducks and 156 geese were caught, banded and released. Hunters killing banded waterfowl are urged by the Game and Fish Commission to return all bands.



Y-12, Lab Riflemen Divide In Match; Plant Still Ahead

The Y-12 and ORNL rifle teams, spirited rivals for the top rung in the Oak Ridge Sportsmen's Association Winter Rifle League, split even in a match fired January 12, with the Y-12ers retaining their two-point lead in the loop. The Y-12 team has won 16 points and lost two to a 14-4 mark by the Labsters.

The ORNL gunmen took the scratch score decision in the January 12 match by two slim points, 1319 to 1317, but the Y-12ers edged out a handicap triumph by 1447.853 to 1443.067.

Carl Brewster led the Y-12ers with 275 scratch, followed by Dave Dewalt and W. B. Davis 263. Ray Tiller took handicap honors with 291.050, trailed by DeWalt at 290.232 and B. White with 289.407.

In the Y-12 Plant League the Centershots, composed of W. B. Davis, J. V. Ledbetter and B. Powers, is in first place with a 6-0 mark. The other three teams are tied at 2-4. They are the 10Xs with C. G. Brewster and G. R. Peterson, the Tackholes with Dave DeWalt, A. J. Blay and M. P. Crews and the Pinwheels with M. W. McGuffin and W. A. Sahr.

The Y-12 riflemen will meet the Oak Ridge Independents next Wednesday, January 28.

Bush Loop Comes Up With Three-Way Tie

Positions in the Bush League of Y-12 pinmen again were widely switched after the latest reported pin pounding of the league at the Ark Bowling Lanes January 12. After the hardwood stopped tumbling at that session a three-way tie existed for first place with the Bees, Nine Pins and Beavers each holding a share of the lead. The Snpft keggers stung the Bees for three points and buzzed them out of undisputed possession of the top rung. The Nine Pins nipped the Alley Choppers by the same score and the Beavers bumped the Inspectors by a similar count. The Lucky Five and Bldg. 9212 each jumped up a couple of steps with whitewash wins of four points over the Balls O'Fire and Hi Balls, respectively.

The Lucky Five cleared the score sheets to lead in all categories with an 838 scratch and 1004 handicap game, 2434 scratch and 2932 handicap series. The scratch series of 2434 was high for the season. In individual scoring Cantrell, Balls O'Fire, took most honors with a 232 scratch and 256 handicap game and a 554 scratch series. McKnight, Lucky Five, had a 609 handicap series for tops.

Team

Team	W	L
Bees	10	6
Nine Pins	10	6
Beavers	10	6
Inspectors	9	7
Lucky Five	8	8
Bldg. 9212	8	8
Balls O'Fire	8	8
Snpft	7	9
Hi Balls	6	10
Alley Choppers	4	12

Rippers Take First Round In Classic

Playboys Whitewashed; Hart Has 612 Series

With a four-point triumph over the Playboys in the final match of the first half of the season in the Classic League, the Rippers last week rambled to the title of the opening round of play. The Sportsmen clinched second place by blanking the All Stars and the Wolves came in third with a three-point win over the Smelters. In other tilts the Rebels blanked the Bumpers and three-point victories were posted by the Markers over the Tigers, Has Beens over the Screwballs, Wasps over the Eight Balls and the Swingsters over the Cubs.

Len Hart, Rippers, Y-12, All-Carbide and city champion, banged out a fine 612 scratch series to aid his team to victory. Other individual scoring honors went to H. Zang, Swingsters, with a 234 scratch game, boosted to 258 with handicap, and a 685 handicap series. In team scoring the Rebels had the high series scores with 2627 scratch and 2988 handicap. The best scratch team score was a 940 by the Wolves and the Rippers' 1037 handicap game was tops of the night.

League standing at the end of the first half of the season follows:

Team	W	L
Rippers	39	21
Sportsmen	37 1/2	22 1/2
Wolves	26 1/2	23 1/2
Has Beens	33	27
Smelters	32	28
Rebels	32	28
Bumpers	31	29
Wasps	30 1/2	29 1/2
Swingsters	30	30
Tigers	27	30
Screwballs	27	30
Cubs	24	36
Eight Balls	23	37
All Stars	23	37
Playboys	21 1/2	38 1/2

RESEARCH EQUALS PROGRESS

Ward Keener, president of the B. F. Goodrich Co., points out the value of research to existence of an industry. He reported that half of his company's business in 1958 came from new or radically improved products it was not producing 10 years ago.

"What are you trying to do, get me into a battle of wits?"

"No, I never fight a person who is unarmed."



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State Hunting Accidents Grow From Carelessness

The number of hunting accidents in Tennessee has increased since quail and rabbit season opened. Almost all of them were caused by carelessness. The most common causes of these accidents are mistaking other hunters for game and dropping, bumping and general careless handling of weapons.

Can Happen To Anyone

Most hunters feel accidents where one hunter mistakes another for game are something that happens to someone else. They feel that they have enough experience that it couldn't happen to them. However, one accident which occurred last year emphasized the fact that these accidents can happen to anyone if they become a little careless. An outdoorsman with 30 years' hunting experience mistook another hunter for a deer and shot him. Many accidents of this type happen to hunters with 10 or 15 years' experience. A person never becomes so wise he no longer needs to be careful.

Many accidents result from careless handling of guns. Hunters should be extremely careful when putting guns into and taking them out of automobiles, when crossing fences and when traveling in rough terrain. If a gun is dropped or if a hunter stumbles and strikes the gun on the ground, the gun is very apt to go off. Therefore, a hunter must make sure that the muzzle of the gun is never pointed in his direction, and that even if the gun is dropped the muzzle will be pointing away. If you stumble it is usually better to hit the ground

rather hard than to use the butt of the gun to break your fall. A bruise or broken bone has less chance of killing than a gunshot at point blank range.

Youngsters Need Training

Young hunters are involved in many accidents. Every youngster should be given instructions in the proper ways of handling firearms before he ventures afield. It is a good idea for an adult to accompany them their first few times in the field to make sure they have learned their lessons well. Today's children play with toy guns from the time they are old enough to walk and are inclined to treat hunting weapons with the same careless attitude unless they have the danger of these lethal weapons upon their minds.

The casualty figures for the 1958-1959 hunting season so far includes three killed by gunshot wounds, 10 seriously wounded and 12 superficially wounded; for a total of 25 persons.

1959 Fishing Rules Placed In Effect

The new 1959 fishing regulations passed at the October Game and Fish Commission meeting became effective January 1, 1959. The only changes in creel limits were the increase in the sauger limit from 10 to 15 per day and the removal of the limits on warmouth bass and all bream except bluegills.

The 10-day trout fishing closure from March 5 to March 15 which only applied to East Tennessee last year has been expanded to include streams stocked with trout in Middle Tennessee.

Fishing in North River on the Tellico Area is limited to the use of artificial lures, and it is now illegal to use or have in possession any other type of bait or lure while fishing there.

All areas open to gigging shall also be open to underwater spear-gun and bow and arrow fishing, subject to the same seasons and species regulations as set for gigging.

Grabbling will be legal in Lick Creek in Greene County from Ottoway Bridge to the Nolichucky River from midnight, July 1, to midnight, September 15. All persons desiring to grabble in Greene County shall first obtain a grabbling permit, available free from any Greene County license agent, in addition to a valid fishing license.



"Worry is like a rocking chair—gives you something to do, but doesn't get you anywhere."

Use Of Simple Rules Of Lifting By Movers Can Prevent Aching Backs, Other Ailments

Remember Suggestions When 'The Urge' Comes

Y-12 families—like thousands of their counterparts throughout the world—periodically get "the urge" to move; either to a new home or to shift furniture around in their present abode to gain new effects. There's that spare couch upstairs that was so handy on the porch last summer, for instance. Then there were some large rocks spotted on a Sunday drive that would be ideal for a new barbecue pit. Or, wouldn't the living-room sofa be better over against the east wall now—to provide a better view of the garden.

All of this involves lifting—and probably plenty of it. Whether the task is just shifting the piano to paint woodwork behind it, or moving cartons from here to there—the lifting can be done much more easily if the mover is smart and follows simple rules to avoid strains, muscle aches, possible hernias or other serious injuries.

Here's a brief rundown of some of the basic rules of lifting:

1. Size up the load first. Don't be a hero and try to lift it alone if there's any doubt about your ability to do so.

2. Make sure your footing is secure. Get a good balance, with your feet 12 inches apart. Keep the strain off your back muscles by standing close to the base of the article you're lifting.

Use Leg Muscles To Lift

3. Now you're ready to lift. Bend the knees outward and straddle the load somewhat, keeping the back as straight as possible. Start pushing up with your legs, using the strongest leg muscles. Keep the load close to the body as you come up to carrying position.

4. If you have to change direction when in the upright position, be careful not to twist your body. Turn with changes of foot position.

5. If your load is to be placed on a bench or table, place it near the edge—make the table take part of the weight. Then push it forward; your arm muscles, not your back, should be used for the pushing.

6. When the object is to be placed on the floor, from a waist-high carrying position, bend your knees first. Then, with a straight back and the load close to the body, lower it with the arm and leg muscles doing the work.

7. Whether working alone or with a partner, always keep your line of vision clear, and carry only what you can see over.

Take it easy on polished floors, and remove scattered papers, small throw rugs or unsecured floor runners from your path.

A final word of caution—don't do any furniture moving if you have high blood pressure or heart trouble. Lifting can be dangerous in such cases.

But, if you have your health and use your head, moving won't be a pain in your back—or anywhere else.

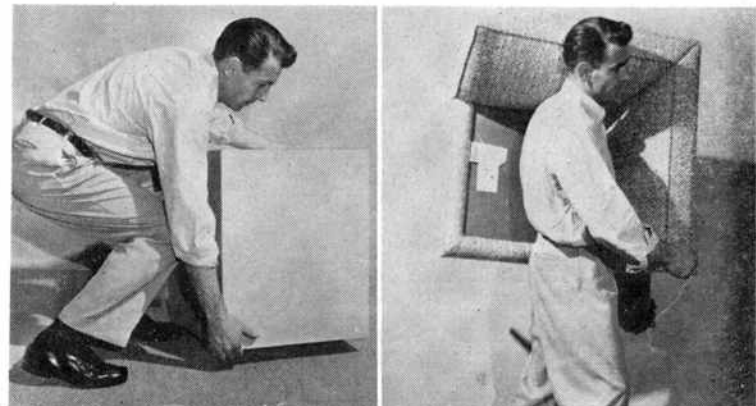
UCC And Belgian Company Will Produce Polyethylene

Union Carbide Corporation and a Belgian firm have announced a joint polyethylene venture. The new organization has been named Cobenam, S.A., and will be jointly owned by UCC and the Belgian company, Societe Chimique des Derives du Petrole, S.A., Petrochim.

Plans call for construction of a plant having an initial capacity of 30,000,000 pounds of polyethylene annually, with production estimated to begin midway in 1960. The plant will be located near Antwerp. Raw materials will be received from a nearby Belgian refinery with know-how being provided by UCC technicians.



WHEN GOING DOWNSTAIRS WITH HEAVY PIECES OF FURNITURE, the taller person should go first. When possible, hands should be on the outside of the article carried. Never grip a part that may loosen.



A HEAVY BOX IS LIFTED, left, by standing near it with feet about 12 inches apart. Keep back as straight as possible, crouch with knees turned out. With arms relaxed, place one hand under the object, the other firmly on the opposite side. In carrying a chair, hoist it on one shoulder, as shown in picture at right, so that the weight is balanced on the shoulder. Keep line of vision free and carry only what can be seen over.

Scrappers Swamp 'Cats In Mixed

The Scrappers lived up to their name in the Mixed League of Y-12 men and women bowlers last week, treeing the Alley Cats for three points to maintain their loop lead and taking all team and individual scoring honors on the masculine side of the roster. The Nip and Tucks remained in second place by taking three from the ABCs, the Pin Plasters plastered the Phantoms and the Clippers clipped the Rockets by the same margin.

The Scrappers registered a 673 scratch game, boosted to 817 with handicap, an 1885 scratch and 2297 handicap series. Herb Oliver led the team with 237, 257, 607 and 677 across the score sheet. For the feminine keggers Nell McGinnis, Clippers, took most honors with a 189 scratch game, 503 scratch series and 581 handicap series. Verna Peckman, Phantoms, came through with a 216 handicap game.

League standing follows:

Team	W	L
Scrappers	7	1
Nip and Tucks	6	2
Phantoms	5	3
Alley Cats	4	4
Pin Plasters	4	4
Clippers	4	4
Rockets	1	7
ABCs	1	7

Remember—Only you can

**PREVENT
FOREST
FIRES**



85 Seek Educational Aid; January 23 Is Deadline

With 85 Y-12ers already having applied for benefits under the Union Carbide Nuclear Company Educational Assistance Plan for Winter Quarter classes at the University of Tennessee, the Oak Ridge Adult Education Program and correspondence courses, it is pointed out that the deadline for filing such applications is Friday of this week, January 23. Both salaried and hourly employees with more than six months of Company Service are eligible to receive the assistance.

Y-12ers applying for this aid must receive approval of their supervisors. Complete information on courses offered, benefits offered and other information about the plan may be obtained from Ralph Pearson, Training Department, Bldg. 9704-2, plant phone 7751.

Linde Company Is Building New Gas Plant In Canada

The Linde Company, of Canada, will build a new plant at Lauzon, Quebec. It will be located on property leased from George T. Davie, Ltd., and will supply pipeline oxygen and acetylene to the Davie concern as well as to Davie Shipbuilding, Ltd. In addition, the new Linde plant will provide cylinder oxygen. Construction is scheduled to start early in 1959 with completion expected by September of this year. The new plant will replace the Quebec City plant, built in 1943.

Know when to button your lip.